

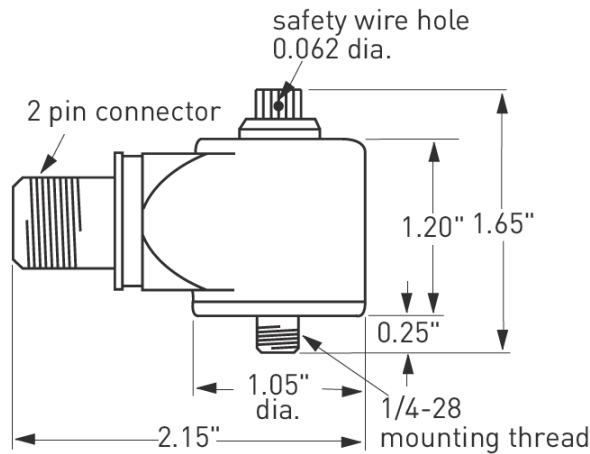
TEDS low profile, low frequency IsoRing accelerometer

ED-797L



Benefits

- Simplifies troubleshooting
- Reduces safety risks - no more climbing on machines to verify connections
- Reduces costs for set-up and tear-down
- No need to recalibrate replacement units - data acquisition system will recalibrate itself
- Designed to integrate with wireless transmitters and receivers
 - eliminates long cables
 - reduces installation, maintenance and upgrade costs of measurement and control systems



Function	Connector pin	Cable conductor color
ground	shell	shield
power/signal	A	white
common	B	black

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

Key features

- Contains transducer electronic data sheet (IEEE 1451 - TEDS)
- Self-identifying
- High sensitivity
- Ultra low-noise electronics for clear signals at very low vibration levels
- Low pass filtered to attenuate high frequencies
- Hermetically sealed
- ESD protection
- Reverse wiring protection

Certifications



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SPECIFICATIONS

Sensitivity, ±5%, 25° C		500 mV/g
Acceleration range		10 g peak
Amplitude nonlinearity		1%
Frequency response	-5%	0.6 - 850 Hz
	-10%	0.4 - 1,500 Hz
	-3 dB	0.2 - 3,700 Hz
Resonance frequency		18 kHz
Transverse sensitivity, max		7% of axial
Temperature response	-50° C	-8%
	+120° C	+5%
Voltage source		18 - 30 VDC
Current regulating diode		2 - 10 mA
Electrical noise, equiv. g		
Broadband	2.5 Hz to 25 kHz	12 µg
Spectral	10 Hz	2.0 µg/√Hz
	100 Hz	0.6 µg/√Hz
	1000 Hz	0.2 µg/√Hz
Output impedance, max		100 Ω
Bias output voltage		10 VDC
Grounding		case isolated, internally shielded
Temperature range¹		-50 to +120° C
Vibration limit		250 g peak
Shock limit		2,500 g peak
Electromagnetic sensitivity, equiv. g		5 µg/gauss
Sealing		hermetic
Base strain sensitivity, max		0.001 g/µstrain
Sensing element design		PZT ceramic / shear
Weight		153 grams
Case material		316L stainless steel
Mounting		1/4-28 captive socket head screw
Mating connector		R6 type
Recommended cabling		J9T2A

Contact

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Accessories supplied:

- TEDS calibration data
- #12105-01 captive socket head (metric studs available upon request)

Notes: ¹ Temperature range is limited to -40°C to +85°C when using the IEEE 1451 - TEDS function.

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